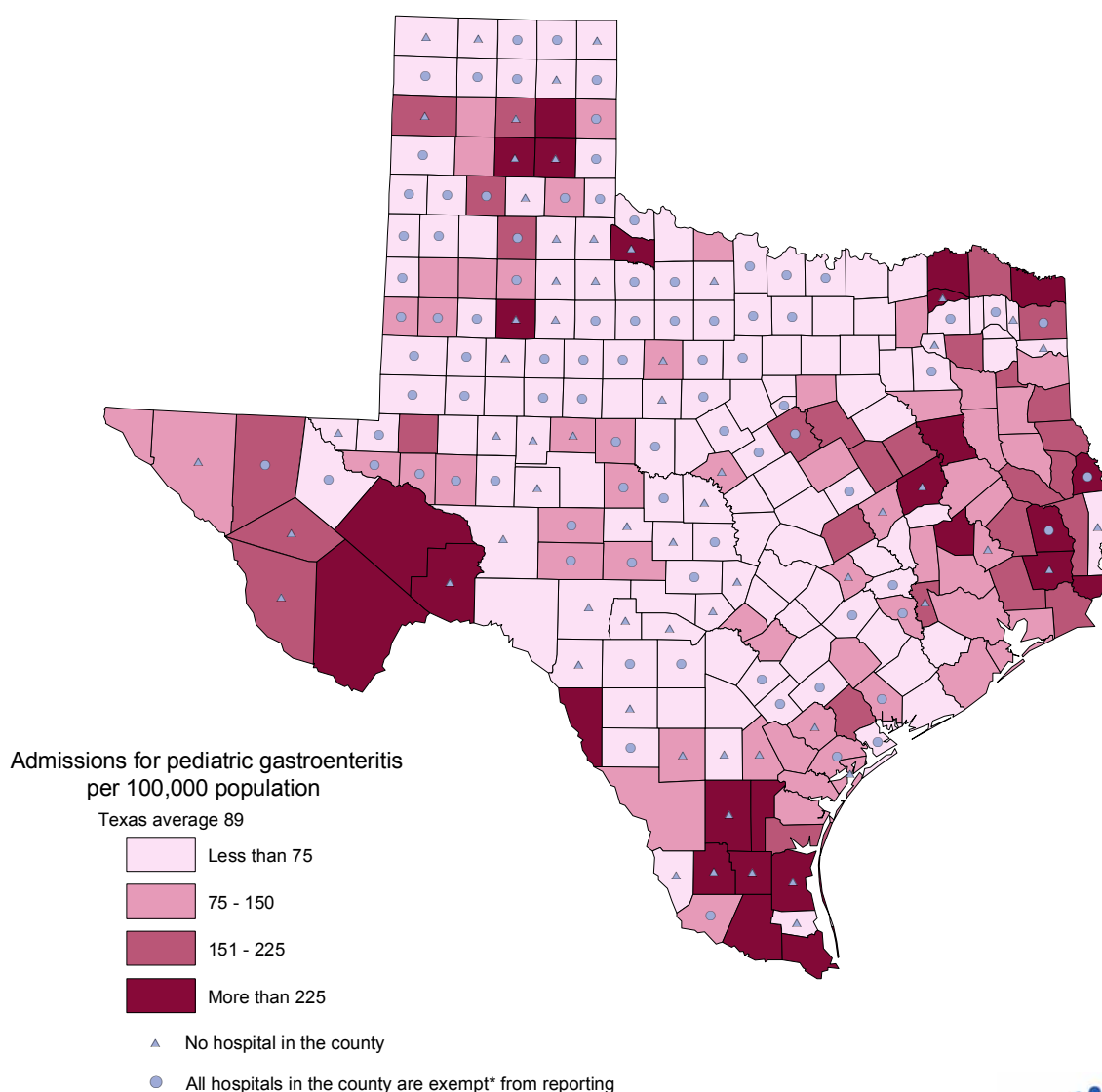


3. Pediatric Gastroenteritis

Gastroenteritis is an inflammation of the mucous membrane lining the stomach and intestine caused by viruses or bacteria. Among children, it is a common reason for visits to family doctors. Treatment guidelines emphasize the importance of encouraging high fluid intake to avoid the need for hospitalization. Some hospital admissions for gastroenteritis in children are unavoidable; however, areas with high rates may want to identify disease severity by looking at the degree of dehydration of the patients. Most children admitted with gastroenteritis appear to have no underlying problems, and most are rehydrated within 12 hours¹⁹.



* THCIC collects data from most Texas hospitals. Some hospitals are statutorily exempt from reporting (see Introduction for details).

Source: THCIC, Texas Inpatient Hospital Discharge Data, 2001.

Table 3. Pediatric Gastroenteritis Admission Rate

Includes data from most Texas hospitals. Some hospitals are statutorily exempt from reporting to THCIC.

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	5,648	6,095,448	92.7	89.0	
Anderson	30	12,727	235.7	241.7**	(130.3, 353.2)
Andrews	Less than 5	4,253			
Angelina	33	22,622	145.9	150.8	(84.8, 216.9)
Aransas	5	5,598	89.3	89.0	(0, 191.1)
Archer	Less than 5	2,415			
Armstrong	Less than 5	587			
Atascosa	6	13,268	45.2	44.1	(0, 90.8)
Austin	6	6,614	90.7	95.4	(0, 192.6)
Bailey	Less than 5	2,032			
Bandera	0	4,130	0.0	0.0*	(0, 0)
Bastrop	7	18,118	38.6	37.5*	(0.7, 74.3)
Baylor	0	893	0.0	0.0*	(0, 0)
Bee	10	9,246	108.2	103.4	(17.8, 188.9)
Bell	24	70,212	34.2	24.1*	(9.1, 39.1)
Bexar	173	419,634	41.2	35.3*	(27.9, 42.8)
Blanco	0	2,232	0.0	0.0*	(0, 0)
Borden	0	184	0.0	0.0*	(0, 0)
Bosque	8	4,286	186.7	190.2	(19.8, 360.6)
Bowie	76	23,774	319.7	327.5**	(232.6, 422.3)
Brazoria	92	72,382	127.1	126.2**	(92.4, 160)
Brazos	27	40,226	67.1	70.8	(36.9, 104.8)
Brewster	6	2,225	269.6	267.9	(0, 548.4)
Briscoe	0	470	0.0	0.0*	(0, 0)
Brooks	6	2,418	248.1	239.4	(0, 493.8)
Brown	7	10,041	69.7	73.6	(4.3, 142.9)
Burleson	Less than 5	4,475			
Burnet	Less than 5	9,054			
Caldwell	Less than 5	10,303			
Calhoun	Less than 5	5,885			
Callahan	Less than 5	3,385			
Cameron	318	119,621	265.8	264.0**	(226.0, 302.0)
Camp	0	2,993	0.0	0.0*	(0, 0)
Carson	Less than 5	1,859			
Cass	14	7,876	177.7	189.0	(63.7, 314.3)
Castro	Less than 5	2,811			
Chambers	6	7,791	77.0	89.7	(2.9, 176.5)
Cherokee	12	12,247	98.0	101.6	(27.9, 175.3)
Childress	0	1,717	0.0	0.0*	(0, 0)
Clay	0	2,850	0.0	0.0*	(0, 0)
Cochran	0	1,199	0.0	0.0*	(0, 0)
Coke	Less than 5	878			
Coleman	0	2,196	0.0	0.0*	(0, 0)
Collin	47	154,204	30.5	26.5*	(15.9, 37.2)
Collingsworth	0	840	0.0	0.0*	(0, 0)

* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

Table 3. Pediatric Gastroenteritis Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	5,648	6,095,448	92.7	89.0	
Colorado	0	5,295	0.0	0.0*	(0, 0)
Comal	18	21,062	85.5	84.2	(33.0, 135.3)
Comanche	Less than 5	3,299			
Concho	Less than 5	972			
Cooke	6	10,352	58.0	60.6	(0, 122.5)
Coryell	8	21,512	37.2	32.9*	(1.2, 64.5)
Cottle	0	432	0.0	0.0*	(0, 0)
Crane	Less than 5	1,334			
Crockett	0	1,151	0.0	0.0*	(0, 0)
Crosby	Less than 5	2,132			
Culberson	Less than 5	915			
Dallam	Less than 5	1,912			
Dallas	196	609,262	32.2	23.2*	(18.2, 28.2)
Dawson	Less than 5	4,291			
De Witt	0	6,379	0.0	0.0*	(0, 0)
Deaf Smith	5	1,371	364.8	371.8	(0, 792.7)
Delta	62	130,305	47.6	39.4*	(25.3, 53.5)
Denton	Less than 5	5,025			
Dickens	0	685	0.0	0.0*	(0, 0)
Dimmit	Less than 5	3,560			
Donley	Less than 5	915			
Duval	23	3,948	582.6	578.7**	(269.7, 887.8)
Eastland	Less than 5	4,441			
Ector	85	38,212	222.4	216.1**	(155.3, 276.9)
Edwards	0	649	0.0	0.0*	(0, 0)
Ellis	12	35,715	33.6	34.4*	(9.3, 59.5)
El Paso	343	221,405	154.9	149.2**	(128.2, 170.2)
Erath	0	8,698	0.0	0.0*	(0, 0)
Falls	Less than 5	4,785			
Fannin	Less than 5	7,501			
Fayette	Less than 5	5,247			
Fisher	0	1,055	0.0	0.0*	(0, 0)
Floyd	Less than 5	2,384			
Foard	Less than 5	398			
Fort Bend	62	122,182	50.7	48.0*	(32.0, 64.1)
Franklin	0	2,381	0.0	0.0*	(0, 0)
Freestone	9	4,478	201.0	211.8	(35.9, 387.7)
Frio	Less than 5	5,127			
Gaines	Less than 5	5,073			
Galveston	86	68,892	124.8	125.6**	(91.0, 160.1)
Garza	Less than 5	1,587			
Gillespie	0	4,760	0.0	0.0*	(0, 0)
Glasscock	0	453	0.0	0.0*	(0, 0)
Goliad	Less than 5	1,861			

* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

Table 3. Pediatric Gastroenteritis Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	5,648	6,095,448	92.7	89.0	
Gonzales	Less than 5	5,469			
Gray	12	5,378	223.1	227.7	(61.3, 394.1)
Grayson	15	28,734	52.2	56.0	(20.3, 91.8)
Gregg	45	30,376	148.1	151.1**	(94.0, 208.1)
Grimes	8	6,494	123.2	129.2	(15.1, 243.4)
Guadalupe	35	26,628	131.4	128.7	(72.4, 184.9)
Hale	6	11,475	52.3	47.3	(0, 99.3)
Hall	Less than 5	967			
Hamilton	0	1,841	0.0	0.0*	(0, 0)
Hansford	Less than 5	1,558			
Hardeman	0	1,238	0.0	0.0*	(0, 0)
Hardin	38	13,961	272.2	283.8**	(168.6, 399.1)
Harris	1,133	988,891	114.6	107.8**	(99.3, 116.2)
Harrison	14	17,423	80.4	91.9	(33.1, 150.6)
Hartley	0	1,177	0.0	0.0*	(0, 0)
Haskell	Less than 5	1,440			
Hays	5	28,996	17.2	21.0*	(0, 42.8)
Hemphill	0	989	0.0	0.0*	(0, 0)
Henderson	14	17,707	79.1	84.7	(28.7, 140.7)
Hidalgo	505	213,912	236.1	233.2**	(206.5, 259.9)
Hill	15	8,549	175.5	179.9	(62.6, 297.3)
Hockley	8	7,373	108.5	109.9	(11.1, 208.7)
Hood	Less than 5	10,406			
Hopkins	0	8,498	0.0	0.0*	(0, 0)
Houston	5	5,637	88.7	98.3	(0, 205.1)
Howard	7	8,982	77.9	73.7	(0.4, 147)
Hudspeth	Less than 5	1,059			
Hunt	22	20,575	106.9	108.6	(49.8, 167.4)
Hutchinson	Less than 5	6,637			
Irion	0	475	0.0	0.0*	(0, 0)
Jack	0	2,349	0.0	0.0*	(0, 0)
Jackson	Less than 5	3,994			
Jasper	20	9,771	204.7	216.4**	(96.1, 336.7)
Jeff Davis	Less than 5	573			
Jefferson	142	64,851	219.0	223.7**	(176.2, 271.2)
Jim Hogg	5	1,607	311.1	301.0	(0, 650.8)
Jim Wells	109	12,638	862.5	858.9**	(648.8, 1069)
Johnson	30	37,656	79.7	83.4	(45.3, 121.4)
Jones	Less than 5	4,953			
Karnes	Less than 5	4,072			
Kaufman	8	21,941	36.5	41.1*	(6.1, 76.1)
Kendall	Less than 5	6,443			
Kenedy	Less than 5	124			
Kent	0	191	0.0	0.0*	(0, 0)

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** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

Table 3. Pediatric Gastroenteritis Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	5,648	6,095,448	92.7	89.0	
Kerr	6	10,208	58.8	58.6	(0, 120.0)
Kimble	Less than 5	1,096			
King	0	85	0.0	0.0*	(0, 0)
Kinney	0	811	0.0	0.0*	(0, 0)
Kleberg	17	9,336	182.1	176.9	(65.6, 288.2)
Knox	0	1,075	0.0	0.0*	(0, 0)
Lamar	54	12,581	429.2	434.3**	(284.2, 584.3)
Lamb	Less than 5	4,360			
Lampasas	0	5,051	0.0	0.0*	(0, 0)
La Salle	Less than 5	1,742			
Lavaca	Less than 5	4,671			
Lee	Less than 5	4,695			
Leon	9	3,864	232.9	237.9	(37.3, 438.6)
Liberty	36	19,999	180.0	187.2**	(109, 265.5)
Limestone	9	5,902	152.5	154.7	(23.8, 285.7)
Lipscomb	0	826	0.0	0.0*	(0, 0)
Live Oak	Less than 5	3,263			
Llano	0	2,833	0.0	0.0*	(0, 0)
Loving	0	18	0.0	0.0*	(0, 0)
Lubbock	87	67,687	128.5	126.6**	(91.7, 161.6)
Lynn	Less than 5	1,958			
McCulloch	0	2,208	0.0	0.0*	(0, 0)
McLennan	82	58,721	139.6	140.4**	(100.8, 179.9)
McMullen	0	200	0.0	0.0*	(0, 0)
Madison	0	2,986	0.0	0.0*	(0, 0)
Marion	Less than 5	2,599			
Martin	Less than 5	1,565			
Mason	0	879	0.0	0.0*	(0, 0)
Matagorda	5	11,786	42.4	40.3*	(0, 87.6)
Maverick	42	17,586	238.8	236.5**	(142.8, 330.3)
Medina	Less than 5	11,468			
Menard	0	588	0.0	0.0*	(0, 0)
Midland	25	35,428	70.6	62.9	(28.8, 97.0)
Milam	10	6,905	144.8	151.2	(31.5, 270.9)
Mills	Less than 5	1,223			
Mitchell	0	2,341	0.0	0.0*	(0, 0)
Montague	0	4,665	0.0	0.0*	(0, 0)
Montgomery	86	90,991	94.5	96.9	(70.5, 123.3)
Moore	Less than 5	6,699			
Morris	0	3,420	0.0	0.0*	(0, 0)
Motley	0	300	0.0	0.0*	(0, 0)
Nacogdoches	21	15,077	139.3	146.9	(67.0, 226.7)
Navarro	8	12,620	63.4	65.5	(7.2, 123.8)
Newton	Less than 5	4,241			

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Table 3. Pediatric Gastroenteritis Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	5,648	6,095,448	92.7	89.0	
Nolan	0	4,219	0.0	0.0*	(0, 0)
Nueces	89	93,869	94.8	91.6	(66.4, 116.9)
Ochiltree	0	2,791	0.0	0.0*	(0, 0)
Oldham	Less than 5	814			
Orange	54	22,919	235.6	244.1**	(160.7, 327.6)
Palo Pinto	0	7,114	0.0	0.0*	(0, 0)
Panola	9	6,157	146.2	157.3	(28.0, 286.6)
Parker	Less than 5	25,414			
Parmer	Less than 5	3,176			
Pecos	27	4,759	567.4	569.1**	(289.9, 848.2)
Polk	15	10,015	149.8	157.1	(55.8, 258.4)
Potter	49	33,170	147.7	138.7	(86.4, 191)
Presidio	5	2,355	212.3	213.1	(0, 456.4)
Rains	0	2,493	0.0	0.0*	(0, 0)
Randall	40	28,184	141.9	145.8	(87.6, 203.9)
Reagan	0	1,192	0.0	0.0*	(0, 0)
Real	0	721	0.0	0.0*	(0, 0)
Red River	7	3,373	207.5	219.7	(13.3, 426.2)
Reeves	Less than 5	4,090			
Refugio	Less than 5	2,073			
Roberts	0	229	0.0	0.0*	(0, 0)
Robertson	Less than 5	4,493			
Rockwall	9	13,496	66.7	71.2	(12.4, 129.9)
Runnels	Less than 5	2,981			
Rusk	14	12,777	109.6	118.9	(40.8, 196.9)
Sabine	5	2,120	235.8	242.4	(0, 515.8)
San Augustine	Less than 5	2,055			
San Jacinto	Less than 5	5,694			
San Patricio	25	20,891	119.7	120.2	(58.8, 181.6)
San Saba	Less than 5	1,791			
Schleicher	Less than 5	932			
Scurry	0	4,348	0.0	0.0*	(0, 0)
Shackelford	Less than 5	886			
Shelby	10	6,586	151.8	156.9	(32.1, 281.8)
Sherman	0	893	0.0	0.0*	(0, 0)
Smith	56	46,686	120.0	122.5	(81.0, 163.9)
Somervell	Less than 5	2,172			
Starr	18	20,625	87.3	84.2	(32.5, 135.8)
Stephens	0	2,396	0.0	0.0*	(0, 0)
Sterling	0	442	0.0	0.0*	(0, 0)
Stonewall	0	375	0.0	0.0*	(0, 0)
Sutton	Less than 5	1,187			
Swisher	5	2,271	220.1	217.2	(0, 467.2)
Tarrant	130	407,946	31.9	23.2*	(17.1, 29.3)

* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

Table 3. Pediatric Gastroenteritis Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	5,648	6,095,448	92.7	89.0	
Taylor	19	34,813	54.6	51.0*	(20.0, 81.9)
Terrell	Less than 5	270			
Terry	Less than 5	3,938			
Throckmorton	0	415	0.0	0.0*	(0, 0)
Titus	0	8,177	0.0	0.0*	(0, 0)
Tom Green	21	28,784	73.0	70.1	(30.2, 110.0)
Travis	39	217,851	17.9	9.8*	(4.4, 15.2)
Trinity	Less than 5	3,097			
Tyler	11	4,479	245.6	259.7	(65.0, 454.4)
Upshur	Less than 5	9,649			
Upton	Less than 5	1,083			
Uvalde	Less than 5	8,367			
Val Verde	Less than 5	14,667			
Van Zandt	8	12,263	65.2	73.0	(10.6, 135.5)
Victoria	41	25,256	162.3	160.2**	(95.8, 224.7)
Walker	43	12,926	332.7	340.8**	(209.6, 472.1)
Waller	16	9,635	166.1	176.9	(67.3, 286.5)
Ward	Less than 5	3,250			
Washington	Less than 5	7,986			
Webb	93	73,295	126.9	118.7	(86.1, 151.2)
Wharton	Less than 5	12,232			
Wheeler	Less than 5	1,328			
Wichita	28	33,567	83.4	83.7	(43.3, 124.2)
Wilbarger	Less than 5	3,823			
Willacy	Less than 5	7,044			
Williamson	19	86,469	22.0	19.5*	(7.3, 31.6)
Wilson	Less than 5	10,385			
Winkler	Less than 5	2,278			
Wise	Less than 5	14,436			
Wood	12	8,526	140.7	151.4	(43.6, 259.2)
Yoakum	Less than 5	2,438			
Young	Less than 5	4,504			
Zapata	0	4,281	0.0	0.0*	(0, 0)
Zavala	Less than 5	4,043			

Source: THCIC, Texas Inpatient Hospital Discharge Data, 2001.

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